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# Bibliography
# Wave Guide and Cavity Theory

Compiled by

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# BIBLIOGRAPHY
# WAVE GUIDE AND CAVITY THEORY

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# INTRODUCTION

This bibliography was prepared on behalf of the members of the group working on basic mathematical investigations in the field of wave guide and cavity theory. In order to keep the bibliography within reasonable bounds, while relating to the chief lines of investigation of the group its scope,has been restricted in several ways. In the first place, only theoretical articles are included, that is, articles in which the conclusions are established by mathematical methods. The articles cover wave guide and cavity theory, and some diffraction studies. The latter topic was included because many wave guide problems are concerned with coupling through holes or with radiation through apertures. (Articles on diffraction arising when waves in space impinge on obstacles, are not included,but can be found in another bibliography being prepared on the subject of wave propagation, Report No. 172-8). A large number of articles in the general field of electromagnetic theory have been excluded, even though many of these contain broad methods having potential application to wave guide problems. A few papers on the propagation of sound in tubes have been noted because the mathematical basis of the attack can be used in electromagnetic problems. However, no exhaustive study of articles on sound was made.

A separate section has been devoted to articles on the travelling wave tube. The subject was included in the first place because one novelty in the tube is the use of the helix as a wave guide. These articles are listed separately because they appeal to investigators interested primarily in the travelling wave tube rather than wave guide theory.

The chief sources covered in preparing this bibliography are Mathematical Reviews, Proceedings of the Institute of Radio Engineers, Science Abstracts (Sections A and B), and the Bibliography of Scientific and Industrial Reports prepared by the Office of Technical Services of the U.S. Department of Commerce. The papers listed begin with the year 1935 and close with those which were abstracted in the above sources by the end of 1947.

The language of the article has been specified, except in the case of English, French or German.

An effort has been made to make the bibliography complete within the scope set for it, but no doubt some omissions will be discovered. It is hoped that the bibliography will be helpful to other investigators in the field.

# LIST OF ABBREVIATIONS

| | |
|---|---|
| Alta Frequenza. | Alta Frequenza. Turin. |
| Ann. d. Physik. | Annalen der Physik. Leipzig. |
| Ann. Physique. | Annales de Physique. Paris. |
| Ann. Radiodiffusion. | Annales de Radiodiffusion. Paris. |
| Ann. Radioélect. | Annales de Radioélectricité. Paris. |
| Ann. Télécommun. | Annales des Télécommunication. Paris. |
| Arch. des Sciences. | Archives des Sciences Physiques et Naturelles. Geneva. |
| Arch. Elektrotech. | Archiv für Elektrotechnik. Berlin. |
| Ark. Mat. Astr. Fys. | Arkiv för Matematik Astronomi och Fysik. Stockholm and London. |
| Atti Accad. Lincei. | Atti della Reale Academia Nazionale dei Lincei. Rome. |
| Bell Lab. Rec. | Bell Laboratories Record. New York. |
| Bell System Tech. J. | Bell System Technical Journal. New York. |
| Bull. Acad. Sci. URSS Sér. Phys. (Izvestion Akad. Nauk. SSSR) | Bulletin de l'Académie des Sciences de l' URSS. Moscow. |
| Bull. Assoc. Suisse Élect. | Bulletin de l'Association Suisse des Électriciens. Zürich. |
| Bull. Soc. Franç. Élect. | Bulletin de La Société Française des Électriciens. Paris. |
| Câbles et Trans. | Câbles et Transmission. Paris. |
| Camp Evans Signal Lab. | Camp Evans Signal Laboratory. |
| Canad. J. of Res. | Canadian Journal of Research. Ottawa. |
| C. R. Acad. Sci. Paris. | Comptes Rendus Hebdomadaire des Séances de l'Académie des Sciences. Paris. |
| C. R. (Doklady) Acad. Sci. URSS (N.S.) | Comptes Rendus de l'Académie des Sciences de l'URSS. Moscow. |
| Elect. Commun. | Electrical Communication. New York and London. |
| Elect. Engng. | Electrical Engineering. New York. |
| Electronics. | Electronics. New York and London. |
| Elektr. Nachr. Techn. (ENT) | Elektrische Nachrichten - Technik. Berlin. |

| | |
|---|---|
| E.T.J. | Electrotechnical Journal. Tokyo. |
| Gauthier - Villars et Cie. | Gauthier - Villars et Cie. Paris. |
| G.E.C.J. (Gen. Elect. Co.) | G.E.C. Journal. London. |
| Harvard Univ., Radio Res. Lab. | Harvard University Radio Research Laboratory. Cambridge. |
| Helv. Phys. Acta. | Helvetica Physica Acta. Basle. |
| Hochfrequenztech. Elektroak. | Hochfrequenztechnik und Elektroakustik. Leipzig. |
| J. Acous. Soc. Amer. | Journal of the Acoustical Society of America. New York. |
| J. Appl. Phys. | Journal of Applied Physics. New York. |
| J. de Physique et le Radium. | Journal de Physique et le Radium. Paris. |
| J. Frank. Inst. | Journal of the Franklin Institute of the State of Pennsylvania. Lancaster and Philadelphia, Pa. |
| J.I.E.E. | Journal of the Institution of Electrical Engineers. London. |
| J. London Math. Soc. | Journal of the London Mathematical Society. London. |
| J. Math. Phys. | Journal of Mathematics and Physics. Massachusetts Institute of Technology. |
| J. Opt. Soc. Amer. | Journal of the Optical Society of America. New York. |
| J. Phys., U.S.S.R. | Journal of Physics. Moscow. |
| J. Sci. Instr. | Journal of Scientific Instruments. London. |
| J. Tech. Phys., USSR. | Journal of Technical Physics, USSR. Moscow. |
| Jbr. Deutsch. Math. Verein. | Jahresbericht Deutschen Mathematiker Vereinigung. Berlin. |
| M.I.T. Rad. Lab. | Massachusetts Institute of Technology Radiation Laboratory. Cambridge. |
| Nature, Lond. | Nature. London. |
| NDRC | National Defense Research Committee. |
| Nippon Elect. Comm. Eng. | Nippon Electrical Communication Engineering. Tokyo. |
| Nuovo Cim. | Il Nuovo Cimento. Bologna. |
| Off. Pub. Bd. | Office Publications Board. |
| Onde Élect. | l'Onde Électrique. Paris. |

| | |
|---|---|
| Phil. Mag. | The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science. London. |
| Philips Tech. Rev. | Philips Technical Review, Eindhoven, Holland. |
| Philos. Trans. Royal Soc. | Philosophical Transactions of the Royal Society of London. London. |
| Physica. | Physica. The Hague. |
| Physica,'s Grav. | Physica,'s Gravenhage. The Hague. |
| Phys. Rev. | The Physical Review. New York. |
| Phys. Z. | Physikalische Zeitschrift. Leipzig. |
| Phys. Zeits. d. Sowjetunion. | Physikalische Zeitschrift der Sowjetunion. Charkow, USSR. |
| Proc. Cambridge Philos. Soc. | Proceedings of the Cambridge Philosophical Society. London. |
| Proc. Edinburgh Math. Soc. | Proceedings of the Edinburgh Mathematical Society. Edinburgh. |
| Proc. Indian Acad. Sci. A. | Proceedings of the Indian Academy of Sciences. Bangalore. |
| Proc. I.R.E. | Proceedings of the Institute of Radio Engineers and Waves and Electrons. New York. |
| Proc. K. Ned. Akad. Wet. | Proceedings of the Koninklijke Nederlandsche Akademie van Wetenschappen. Amsterdam. |
| Proc. Nat. Ac. Sci. | Proceedings of the National Academy of Sciences. Washington, D. C. |
| Proc. Phys. Soc. London. | Proceedings of the Physical Society. London. |
| Proc. Royal Soc. London. | Proceedings of the Royal Society of London. London. |
| Quart. Appl. Math. | Quarterly of Applied Mathematics. Providence, R. I. |
| Quart. J. Math., Oxford Ser. | Quarterly Journal of Mathematics. Oxford. |
| Radioélec. | Radioélectricité. Paris. |
| Radiotekhnika. | Radiotekhnika. Moscow. |
| Rev. d'Acoustique. | Revue d'Acoustique. Paris. |
| Rev. Gén. Élect. | Revue Générale d'Électricité. Paris. |
| Rev. Mod. Phys. | Reviews of Modern Physics. New York. |

| | |
|---|---|
| Rev. Opt. (Théor. Instrum.) | Revue d'Optique Théorique et Instrumentale. Paris. |
| Rev. Sci. Instrum. | Review of Scientific Instruments. New York. |
| Rev. Sci. (Paris). | Revue Scientifique. Paris. |
| Schweiz. Arch. angew. Wiss. Techn. | Schweizer Archiv für angewandte Wissenschaft und Technik. |
| Students' J.I.E.E. | Students' Quarterly Journal of the Institution of Electrical Engineers. London. |
| Telefunken. | Telefunken. |
| Télév. Franç. | Télévision Française. Paris. |
| T.F.T. | Telegraphen-und Fernsprech-Technik. Berlin. |
| Tijds. Ned. Radiogenoot. | Tijdschrift van het Nederlandsch Radiogenootschap. Baarn, Holland. |
| Trans. A.I.E.E. | Transactions of the American Institute of Electrical Engineers. New York. |
| Trans. Chalmers Univ. Tech. Gothenburg. | Transactions of the Chalmers Institute of Technology. Gothenburg. |
| Wireless Eng. | Wireless Engineer. London. |
| Wireless World. | Wireless World. London. |
| Zh. Eksp. Teor. Fiz. | Zhurnal Eksperimental 'noy i Teoreticheskoy Fiziki. (Akademiya nauk.) Moscow. |
| Z. Phys. | Zeitschrift für Physik. Berlin. |

## SECTION I

## Wave Guide and Cavity Theory

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